

Slacking Off I

DiPS CodeJam 24

Prompt

As most developers know, the number 1 excuse for slacking off is that your code is compiling (<https://xkcd.com/303/>). Bobby has a lot of programs to compile, but doesn't want to give his boss any chance to say he's not working. So he lays out all the programs he needs to compile in a table, with 2 numbers for each program – when he will receive the program and can start compiling, and approximately when the program will finish compiling.

Can you help him decide what is the most number of programs he can compile?

Input Format

- The first line of the input contains an integer n , denoting the number of programs.
- The next n lines of the input each contain when he will receive the program and can start compiling, and approximately when the program will finish compiling, in the form of 2 space-separated integers.

Output Format

The first and only line of your output must contain a single integer m , denoting the maximum number of programs Bobby can compile.

Constraints

- $0 \leq n \leq 10^6$
- Assume that the compilations are already sorted based on end times.
- Bobby has 10^4 hours to finish his job.

Sample Program

```
def solve(n, arr):
    s = []
    f = []

    for i in range(n):
        inputArr = list(map(int, arr[i].split()))
        s.append(inputArr[0])
        f.append(inputArr[1])

    comp = []

    i = 0
    comp.append(i)
```

```
for j in range(n):
    if s[j] >= f[i]:
        comp.append(j)
        i = j

return len(comp)
```